

Special Issue

Bioengineering Strategies for Cardiac Tissue

Message from the Guest Editor

Cardiovascular disease is a major cause of death and morbidity globally. Bioengineering living cardiovascular tissue promises to help in treating some of these diseases like Congenital Heart Defects (CHDs). Indeed, a major problem with corrective surgery for such CHDs is the lack of living replacement materials with the capacity of growth and regeneration. Additionally, bioengineering living cardiovascular tissue offers a tool for studying the pathology and therapy of cardiovascular diseases. This Special Issue of Bioengineering will focus on the bioengineering strategies for cardiovascular tissue and aims to showcase high-quality contributions addressing current challenges in this field. Topics of interest include but are not limited to stem cell research; cardiovascular tissue engineering; scaffolds and biomaterials; tissue decellularization and cell seeding; cell differentiation; 3D cell culture; 3D bioprinting; bioreactors; tissue-engineered vessels; tissue-engineered cardiac patches; cardiovascular disease modeling; and translational cardiovascular medicine.

Guest Editor

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Editor-in-Chief

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